

L Number	Hits	Search Text	DB	Time stamp
1	1	((petroleum or sponge) near2 coke) near60 ((thermal adj coke) near20 (asphalt\$6 near3 coke))	USPAT	2003/02/12 13:22
2	1	((petroleum or spong\$ or delayed) near2 cok\$3) and ((thermal adj coke) near20 (asphalt\$6 near3 coke))	USPAT	2003/02/12 13:17
3	3	((petroleum or spong\$ or delayed) near2 cok\$3) and ((thermal\$4 near4 coke) near20 (asphalt\$6 near3 coke))	USPAT	2003/02/12 13:18
4	1081	(control\$ or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)	USPAT	2003/02/12 13:20
5	1140	(controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)	USPAT	2003/02/12 13:21
6	2864	((petroleum or sponge) near2 coke)	USPAT	2003/02/12 13:22
7	12	((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and (((petroleum or sponge) near2 coke))	USPAT	2003/02/12 13:35
8	3222	cte	USPAT	2003/02/12 13:35
9	1	((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and (((petroleum or sponge) near2 coke))) and cte	USPAT	2003/02/12 13:36
10	332	fuel adj grade	USPAT	2003/02/12 13:37
11	7	((petroleum or sponge) near2 coke)) near20 (fuel adj grade)	USPAT	2003/02/12 13:41
12	141114	vcm or volatile	USPAT	2003/02/12 13:41
13	18	((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and (((petroleum or sponge) near2 coke))) or (((petroleum or sponge) near2 coke)) near20 (fuel adj grade))	USPAT	2003/02/12 13:41
14	10	(vcm or volatile) and (((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and (((petroleum or sponge) near2 coke))) or (((petroleum or sponge) near2 coke)) near20 (fuel adj grade)))	USPAT	2003/02/12 13:46
15	3583	(green or sponge or delayed or petroleum) near6 coke	USPAT	2003/02/12 13:46
16	51285	((solvent or furfural or mek) near6 (deasphalt\$3 or extract\$3))	USPAT	2003/02/12 13:48
17	320	((petroleum or sponge) near2 coke)) and (((solvent or furfural or mek) near6 (deasphalt\$3 or extract\$3)))	USPAT	2003/02/12 13:49
18	2	((petroleum or sponge) near2 coke)) near40 ((solvent or furfural or mek) near6 (deasphalt\$3 or extract\$3)))	USPAT	2003/02/12 14:24
19	2729	quench\$3 near6 (introduc\$3 or inject\$3)	USPAT	2003/02/12 14:25
20	132	((petroleum or sponge) near2 coke)) and (quench\$3 near6 (introduc\$3 or inject\$3))	USPAT	2003/02/12 14:29
21	197	(vapor\$ or gas or gaseous) near12 drum near12 coke	USPAT	2003/02/12 14:32
22	14	(((petroleum or sponge) near2 coke)) and (quench\$3 near6 (introduc\$3 or inject\$3))) and ((vapor\$ or gas or gaseous) near12 drum near12 coke) (catal\$4 or activat\$4) near12 coke	USPAT	2003/02/12 15:38
23	6944		USPAT	2003/02/12 15:46

24	12	((((petroleum or sponge) near2 coke)) and (((solvent or furfural or mek) near6 (deasphalt\$3 or extract\$3)))) and "234" ((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)	USPAT	2003/02/12 15:41
25	664	((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))	USPAT	2003/02/12 15:41
26	423	((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))	USPAT	2003/02/12 15:41
27	125	((vcm or volatile) and (((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))))	USPAT	2003/02/12 15:42
28	8	(quench\$3 near6 (introduc\$3 or inject\$3)) and (((vcm or volatile) and (((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))))	USPAT	2003/02/12 15:42
29	476	((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$ or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited))	USPAT	2003/02/12 15:56
30	476	((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$4 or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited))	USPAT	2003/02/12 15:59
31	7	((vcm or volatile) and (((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)))) and (((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$4 or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited)))	USPAT	2003/02/12 16:00
32	1412	quench\$3 near8 inject\$3	USPAT	2003/02/12 16:04
33	0	((vcm or volatile) and (((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)))) and (((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$4 or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited))) and (quench\$3 near8 inject\$3)	USPAT	2003/02/12 16:00
34	2	((vcm or volatile) and (((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)))) and (quench\$3 near8 inject\$3) quench\$3 near8 (chemical\$ or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)	USPAT	2003/02/12 16:01
35	498	quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)	USPAT	2003/02/12 16:06
36	498	quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)	USPAT	2003/02/12 16:21

37	0	((vcm or volatile) and (((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:07
38	0	((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:08
39	1	((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:08
40	1222	208/128-132.cccls.	USPAT	2003/02/12 16:08
41	1	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) and 208/128-132.cccls.	USPAT	2003/02/12 16:09
42	2	((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$ or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited)) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:10
43	76	((catal\$4 or activat\$4) near12 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:10
44	67	(quench\$3 near6 (introduc\$3 or inject\$3)) and (((catal\$4 or activat\$4) near12 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)))	USPAT	2003/02/12 16:11
45	0	((petroleum or sponge) near2 coke)) and ((quench\$3 near6 (introduc\$3 or inject\$3)) and (((catal\$4 or activat\$4) near12 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))))	USPAT	2003/02/12 16:11
46	1	((green or sponge or delayed or petroleum) near6 coke) and ((quench\$3 near6 (introduc\$3 or inject\$3)) and (((catal\$4 or activat\$4) near12 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))))	USPAT	2003/02/12 16:12
47	4	((green or sponge or delayed or petroleum) near6 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:14
48	0	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) near30 ((petroleum or delayed or green or spong\$2) near3 (coke or cooking))	USPAT	2003/02/12 16:15
49	49	thermal adj quench	USPAT	2003/02/12 16:15
50	33	chemical adj quench	USPAT	2003/02/12 16:16
51	1	(thermal adj quench) and (chemical adj quench)	USPAT	2003/02/12 16:16

52	0	((green or sponge or delayed or petroleum) near6 coke) and (thermal adj quench)	USPAT	2003/02/12 16:16
53	1	((green or sponge or delayed or petroleum) near6 coke) and (chemical adj quench)	USPAT	2003/02/12 16:18
55	0	208/128-132.cccls. and ((thermal adj quench) or (chemical adj quench))	USPAT	2003/02/12 16:18
54	81	(thermal adj quench) or (chemical adj quench)	USPAT	2003/02/12 16:19
56	1	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) and 208/128-132.cccls.	USPAT	2003/02/12 16:22
57	4734	208/128-132.cccls. or 201/\$.cccls.	USPAT	2003/02/12 16:23
58	500	(208/128-132.cccls. or 201/\$.cccls.) and quench\$3	USPAT	2003/02/12 16:23
59	112	((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.cccls. or 201/\$.cccls.) and quench\$3)	USPAT	2003/02/12 16:24
60	21	(quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.cccls. or 201/\$.cccls.) and quench\$3))	USPAT	2003/02/12 16:39
61	1	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) and ((quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.cccls. or 201/\$.cccls.) and quench\$3)))	USPAT	2003/02/12 16:26
62	1	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) and ((quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.cccls. or 201/\$.cccls.) and quench\$3)))	USPAT	2003/02/12 16:36
63	860	(sponge or green or fuel adj grade or adsorb\$4) near12 coke	USPAT	2003/02/12 16:40
64	10	((quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.cccls. or 201/\$.cccls.) and quench\$3))) and ((sponge or green or fuel adj grade or adsorb\$4) near12 coke)	USPAT	2003/02/12 16:47
65	1	3917564.pn.	USPAT	2003/02/12 16:42
66	213	(sulfur or sulfide) near5 (impregnat\$3 or deposit\$3) near9 coke	USPAT	2003/02/12 16:48
67	1	((quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.cccls. or 201/\$.cccls.) and quench\$3))) and ((sulfur or sulfide) near5 (impregnat\$3 or deposit\$3) near9 coke)	USPAT	2003/02/12 16:48

L Number	Hits	Search Text	DB	Time stamp
1	1	((petroleum or sponge) near2 coke) near60 ((thermal adj coke) near20 (asphalt\$6 near3 coke))	USPAT	2003/02/12 13:22
2	1	((petroleum or spong\$ or delayed) near2 cok\$3) and ((thermal adj coke) near20 (asphalt\$6 near3 coke))	USPAT	2003/02/12 13:17
3	3	((petroleum or spong\$ or delayed) near2 cok\$3) and ((thermal\$4 near4 coke) near20 (asphalt\$6 near3 coke))	USPAT	2003/02/12 13:18
4	1081	(control\$ or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)	USPAT	2003/02/12 13:20
5	1140	(controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)	USPAT	2003/02/12 13:21
6	2864	((petroleum or sponge) near2 coke)	USPAT	2003/02/12 13:22
7	12	((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and (((petroleum or sponge) near2 coke))	USPAT	2003/02/12 13:35
8	3222	cte	USPAT	2003/02/12 13:35
9	1	((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and (((petroleum or sponge) near2 coke))) and cte	USPAT	2003/02/12 13:36
10	332	fuel adj grade	USPAT	2003/02/12 13:37
11	7	((petroleum or sponge) near2 coke)) near20 (fuel adj grade)	USPAT	2003/02/12 13:41
12	141114	vcm or volatile	USPAT	2003/02/12 13:41
13	18	((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and (((petroleum or sponge) near2 coke))) or (((petroleum or sponge) near2 coke)) near20 (fuel adj grade))	USPAT	2003/02/12 13:41
14	10	(vcm or volatile) and (((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and (((petroleum or sponge) near2 coke))) or (((petroleum or sponge) near2 coke)) near20 (fuel adj grade)))	USPAT	2003/02/12 13:46
15	3583	(green or sponge or delayed or petroleum) near6 coke	USPAT	2003/02/12 13:46
16	51285	((solvent or furfural or mek) near6 (deasphalt\$3 or extract\$3))	USPAT	2003/02/12 13:48
17	320	((petroleum or sponge) near2 coke)) and (((solvent or furfural or mek) near6 (deasphalt\$3 or extract\$3)))	USPAT	2003/02/12 13:49
18	2	((petroleum or sponge) near2 coke)) near40 ((solvent or furfural or mek) near6 (deasphalt\$3 or extract\$3)))	USPAT	2003/02/12 14:24
19	2729	quench\$3 near6 (introduc\$3 or inject\$3)	USPAT	2003/02/12 14:25
20	132	((petroleum or sponge) near2 coke)) and (quench\$3 near6 (introduc\$3 or inject\$3))	USPAT	2003/02/12 14:29
21	197	(vapor\$ or gas or gaseous) near12 drum near12 coke	USPAT	2003/02/12 14:32
22	14	(((petroleum or sponge) near2 coke)) and (quench\$3 near6 (introduc\$3 or inject\$3))) and ((vapor\$ or gas or gaseous) near12 drum near12 coke) (catal\$4 or activat\$4) near12 coke	USPAT	2003/02/12 15:38
23	6944		USPAT	2003/02/12 15:46

24	12	((((petroleum or sponge) near2 coke)) and (((solvent or furfural or mek) near6 (deasphalt\$3 or extract\$3)))) and "234" ((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)	USPAT	2003/02/12 15:41
25	664	((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))	USPAT	2003/02/12 15:41
26	423	((((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))	USPAT	2003/02/12 15:41
27	125	((((vcm or volatile) and (((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))))	USPAT	2003/02/12 15:42
28	8	((quench\$3 near6 (introduc\$3 or inject\$3)) and ((vcm or volatile) and (((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))))	USPAT	2003/02/12 15:42
29	476	((((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$ or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited)))	USPAT	2003/02/12 15:56
30	476	((((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$4 or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited)))	USPAT	2003/02/12 15:59
31	7	((((vcm or volatile) and (((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)))) and (((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$4 or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited)))	USPAT	2003/02/12 16:00
32	1412	quench\$3 near8 inject\$3	USPAT	2003/02/12 16:04
33	0	((((vcm or volatile) and (((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)))) and (((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$4 or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited))) and (quench\$3 near8 inject\$3))	USPAT	2003/02/12 16:00
34	2	((((vcm or volatile) and (((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)))) and (quench\$3 near8 inject\$3))	USPAT	2003/02/12 16:01
35	498	quench\$3 near8 (chemical\$\$ or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)	USPAT	2003/02/12 16:06
36	498	quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)	USPAT	2003/02/12 16:21

37	0	((vcm or volatile) and (((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:07
38	0	(((petroleum or sponge) near2 coke)) and (((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke))) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:08
39	1	((green or sponge or delayed or petroleum) near6 coke) and ((catal\$4 or activat\$4) near12 coke)) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:08
40	1222	208/128-132.ccls.	USPAT	2003/02/12 16:08
41	1	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) and 208/128-132.ccls.	USPAT	2003/02/12 16:09
42	2	((catal\$4 or activat\$4 or adsorb\$3) near8 coke) near12 ((metal\$3 or resin\$ or component or agent or element) near9 (adding or added or impregnateing or impregnated or introduced or deposit or deposited)) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:10
43	76	((catal\$4 or activat\$4) near12 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))	USPAT	2003/02/12 16:10
44	67	(quench\$3 near6 (introduc\$3 or inject\$3)) and (((catal\$4 or activat\$4) near12 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)))	USPAT	2003/02/12 16:11
45	0	((petroleum or sponge) near2 coke)) and ((quench\$3 near6 (introduc\$3 or inject\$3)) and (((catal\$4 or activat\$4) near12 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))))	USPAT	2003/02/12 16:11
46	1	((green or sponge or delayed or petroleum) near6 coke) and ((quench\$3 near6 (introduc\$3 or inject\$3)) and (((catal\$4 or activat\$4) near12 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added))))	USPAT	2003/02/12 16:12
47	4	((green or sponge or delayed or petroleum) near6 coke) and (quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)))	USPAT	2003/02/12 16:14
48	0	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) near30 ((petroleum or delayed or green or sponge\$2) near3 (coke or coking))	USPAT	2003/02/12 16:15
49	49	thermal adj quench	USPAT	2003/02/12 16:15
50	33	chemical adj quench	USPAT	2003/02/12 16:16
51	1	(thermal adj quench) and (chemical adj quench)	USPAT	2003/02/12 16:16

52	0	((green or sponge or delayed or petroleum) near6 coke) and (thermal adj quench)	USPAT	2003/02/12 16:16
53	1	((green or sponge or delayed or petroleum) near6 coke) and (chemical adj quench)	USPAT	2003/02/12 16:18
55	0	208/128-132.ccls. and ((thermal adj quench) or (chemical adj quench))	USPAT	2003/02/12 16:18
54	81	(thermal adj quench) or (chemical adj quench)	USPAT	2003/02/12 16:19
56	1	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) and 208/128-132.ccls.	USPAT	2003/02/12 16:22
57	4734	208/128-132.ccls. or 201/\$.ccls.	USPAT	2003/02/12 16:23
58	500	(208/128-132.ccls. or 201/\$.ccls.) and quench\$3	USPAT	2003/02/12 16:23
59	112	((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.ccls. or 201/\$.ccls.) and quench\$3)	USPAT	2003/02/12 16:24
60	21	(quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.ccls. or 201/\$.ccls.) and quench\$3))	USPAT	2003/02/12 16:39
61	1	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) and ((quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.ccls. or 201/\$.ccls.) and quench\$3)))	USPAT	2003/02/12 16:26
62	1	(quench\$3 near8 (chemical\$3 or catal\$4) near8 (inject\$3 or introduc\$4 or adding or added)) and ((quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.ccls. or 201/\$.ccls.) and quench\$3)))	USPAT	2003/02/12 16:36
63	860	(sponge or green or fuel adj grade or adsorb\$4) near12 coke	USPAT	2003/02/12 16:40
64	10	((quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.ccls. or 201/\$.ccls.) and quench\$3))) and ((sponge or green or fuel adj grade or adsorb\$4) near12 coke)	USPAT	2003/02/12 16:47
65	1	3917564.pn.	USPAT	2003/02/12 16:42
66	213	(sulfur or sulfide) near5 (impregnat\$3 or deposit\$3) near9 coke	USPAT	2003/02/12 16:48
67	1	((quench\$3 near8 inject\$3) and (((green or sponge or delayed or petroleum) near6 coke) and ((208/128-132.ccls. or 201/\$.ccls.) and quench\$3))) and ((sulfur or sulfide) near5 (impregnat\$3 or deposit\$3) near9 coke)	USPAT	2003/02/12 16:57
68	16	((petroleum or sponge) near2 coke)) near20 adsorb\$3	USPAT	2003/02/12 17:43
69	214	spong\$3 near20 adsorb\$4	USPAT	2003/02/12 16:55
70	0	((sulfur or sulfide) near5 (impregnat\$3 or deposit\$3) near9 coke) and (spong\$3 near20 adsorb\$4)	USPAT	2003/02/12 16:56
71	0	((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and (spong\$3 near20. adsorb\$4)	USPAT	2003/02/12 16:56
72	0	(208/128-132.ccls. or 201/\$.ccls.) and (spong\$3 near20 adsorb\$4)	USPAT	2003/02/12 16:56

73	1	((catal\$4 or activat\$4) near12 coke) and (spong\$3 near20 adsorb\$4) adsorb\$3.ti.	USPAT	2003/02/12 17:00
74	1000		USPAT	2003/02/12 17:00
76	0	((controlling or controlled or control or adjust\$3 or keeping or keep or kept) near6 (asphalt\$5)) and ((spong\$3 near20 adsorb\$4) and adsorb\$3.ti.)	USPAT	2003/02/12 17:01
77	0	((green or sponge or delayed or petroleum) near6 coke) and ((spong\$3 near20 adsorb\$4) and adsorb\$3.ti.)	USPAT	2003/02/12 17:01
75	15	(spong\$3 near20 adsorb\$4) and adsorb\$3.ti.	USPAT	2003/02/12 17:04
78	0	((spong\$3 near20 adsorb\$4) and adsorb\$3.ti.) and coke	USPAT	2003/02/12 17:04
79	35757	502/\$.ccls.	USPAT	2003/02/12 17:05
80	3	(spong\$3 near20 adsorb\$4) near10 coke	USPAT	2003/02/12 17:05
81	1	(spon\$3 near3 coke) near9 adsorb\$3	USPAT	2003/02/12 17:46
82	1	(spon\$3 near3 coke) near23 adsorb\$4	USPAT	2003/02/12 17:47
83	3	(spon\$3 near12 coke) near23 adsorb\$4	USPAT	2003/02/12 17:51
84	26	(anti-foam or antifoam or drill\$ or lance) near12 (inject\$4 near9 (drum or coke))	USPAT	2003/02/12 17:59
85	2	((anti-foam or antifoam or drill\$ or lance) near12 (inject\$4 near9 (drum or coke))) and quench\$3	USPAT	2003/02/12 17:57
86	0	(anti-foam or antifoam or drill\$ or lance) near12 (inject\$4 near20 (drum or coke)) near30 quench\$	USPAT	2003/02/12 18:00
87	5	(anti-foam or antifoam or drill\$ or lance or injector or nozzle or quill) near12 (inject\$4 near20 (drum or coke)) near30 quench\$	USPAT	2003/02/12 18:08
88	0	coking adj charcoal adj charge	USPAT	2003/02/12 18:09
89	8	coking adj coal adj charge	USPAT	2003/02/12 18:09
90	1057	impregnating adj agent	USPAT	2003/02/12 18:10
91	1	(coking adj coal adj charge) and (impregnating adj agent)	USPAT	2003/02/12 18:10